

PODKOLZINA, K.M.

Example of an address program for the calculation of a recursive
function. Zbir.prats' s obchys.mat.i tekhn. 1:83-85 '61. (MIRA 16:2)
(Electronic computers—Programming)

S/044/62/000/010/039/042
B158/B102

16.000
AUTHOR: Rodkolzina, K. M.

TITLE: Sample of address program for calculating a recursion function

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1962, 65,
abstract 10V346 (Zb. prats' z obchisl. matem. i tekhn. v. I.
Kiyev, AN USSR, 1961, 83-85 [Ukr.; summary in Russ.])

TEXT: An algorithm for calculating a recursion function with a substitution
for a parameter is given, together with its realization using address
programing. [Abstracter's note: Complete translation.] ✓B

Card 1/1

RABINOVICH, Z.L.; ~~PODKOLZINA, K.M.~~; SHLYAKHOVA, N.I.; MIKHNOVSKIY, S.D.
[Mikhnovskiy, S.D.]; GALENKO, D.N. [Halenko, D.M.]

Arithmetic calculator with increased computing speed. Zbir.
prats' z obchys. mat. i tekh. 3:76-83 '61. (MIRA 15:2)
(Calculating machines)

L 55995-65

ACCESSION NR: AP5009402

S/0208/65/005/002/0369/0372
681.142.2

AUTHOR: Gladun, V. P. (Kiev); Letichevskiy, A. A. (Kiev); Mikhnovskiy, S. D. (Kiev); Podkolzina, K. M. (Kiev); Rabinovich, Z. L. (Kiev)

TITLE: An extension of the logical possibilities of Algol-60 language

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 5, no. 2., 1965, 369-372

TOPIC TAGS: Algol language, computer language, computer programming

ABSTRACT: A variant of an extension of Algol-60 language is proposed in order to simplify the programming of non-arithmetic problems and to increase access to the intrinsic possibilities of the machine. In an effort to keep the language of Algol independent of the individual machine, only one machine parameter, the length of the machine word, was used in describing the semantics of the language. New variables are introduced: 1) a *string* is a variant of the Algol *line*: `<line>::=any sequence of symbols not containing "or" | <empty>`; 2) a *code* is defined syntactically as follows:
`<code position>::=1|0`

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<code>::=<code position>|<code>|<code position>.
The type *string* should be assigned to variables and functions used as primary line expressions, the type *code* to those used as primary code expressions. The logical operations are defined only for codes of equal length. The length of strings is limited by the number of symbols in a memory cell, as is the length of codes. The results were tested by application to several specific programs. "The work was discussed in a seminar on the theory of digital computers. The authors express their sincere gratitude for a number of valuable observations and advice to V. M. Glushkov, A. A. Stogniy, N. Z. Shor and others."

ASSOCIATION: none

SUBMITTED: 29Jun64

ENCL: 00

SUB CODE: DP

NO REF SOV: 000

OTHER: 001

Card 2/2

PODKOLZINA, L. A.

Colorimetric determination of copper with organic reagents in chemico-legal investigations. A. T. Shinkarenko, E. A. Gerasimova, and L. A. Podkolzina (Pharm. Inst., Pyatigorsk). *Aptekhoz-Biznes*, 21-4(1954).—The org. matter is destroyed by the Stepanov method. Without removing the HNO₃, the soln. is dild. 10-fold; 20 cc. is transferred to a beaker, followed by 5 cc. of a 20% soln. of Na citrate and rendered slightly basic with NH₄OH. Two cc. of a 0.5% alc. soln. of dithiooxamide-HCl is added, and the beaker is heated on a water bath at 50° for 1 hr. and put aside for 4 hrs. or overnight. The flocculent ppt. contg. Cu and possibly Co and Ni is filtered off and washed with 1% soln. of NH₄Cl, the wet filter is transferred to a crucible, slightly dried, and treated with a few drops of concd. H₂SO₄, the acid is evapd., and the residue is ashed in an elec. furnace. To the ash is added a few drops of HCl and enough water to make the vol. 15 cc. The soln. is transferred to a separatory funnel, followed by 1 cc. of a 1% soln. of Na citrate, a few drops of NH₄OH, and 1 cc. of an aq. soln. of Na diethyldithiocarbamate. After mixing, 5 cc. of CHCl₃ is added, the funnel shaken for 1 min., and the extn. repeated once more with another 5 cc. The CHCl₃ soln. is matched with appropriate standards. A. S. Mirkina

ARKHIPOVICH, N.A.; BONDAREVSKAYA, V.N.; PODKOLZINA, V.P.

Using the method of 1:1 dilution for the simplification of the
analysis of sugar products. Sakh. prom. 37 no.10:33-34 0 '63.
(MIRA 16:12)

1. Kiyevskiy tekhnologicheskii institut pishchevoy
promyshlennosti im. Mikoyana.

PODKOSOV, L.G.; PODKOL'ZINA, Ye.P.; MAMINA, A.V.; YERSHOV, V.S.; FEDOROV,
M.V.; RUZHITSKAYA, K.P.

New methods and apparatus for the dressing of titanium-zirconium
sands. Min.syr'e no.9:3-15 '63. (MIRA 17:10)

PODKOPAY, I.

USSR.

✓ Mercuran treatment of cotton seed. V. Porzhenko and
I. Podkopal. *Khlopkovodstvo* 5, No. 3, 48 (1955).—Mer-
curan mix contg. ethyl mercury chloride 2, BHC 16.5, en-
riched with the γ -isomer to 35, and talcum contg. 30-50%
kaolin as a filler is a superior bactericide and fungicide when
applied to cotton seed, destroying 60% of Tenebrionidae
and Blatellidae beetle larvae. Elisabeth Barabshi

PODKOPAY, N.I.

One device replaces two instruments. Avtom., telex. i svyaz'
8 no.4:44 Ap '64. (MIRA 18:2)

1. Starshiy elektromekhanik 2-y Khar'kovskoy distantssi
signalizatsii i svyazi Yuzhnoy dorogi.

ZAYNUTDINOV, V.N.; PODKOPAYEV, A.I.

Using flame furnaces for heating bore bits forging purposes.
Gor. zhur. no.11:82 N '63. (MIRA 17:6)

1. Magnitogorskiy gornometallurgicheskiy institut (for
Zaynutdinov). 2. Magnitogorskiy rudnik (for Podkopayev).

PODKOPAYEV, A.N.; STASISHINA, V.M.

Design of oil-and-steam frying units. Kons.i ov.prom. 17 no.7:21-23
Jl '62. (MIRA 15:6)

1. Odesskiy konservnyy kombinat.
(Canning industry—Equipment and supplies)

PODKOPAYEV, B.

[Konstantin Feoktistov, astronaut from Voronezh] Kos-
monavt iz Voronezha Konstantin Feoktistov. Voronezh,
Izd-vo gazety "Kommuna," 1964. 82 p. (MIRA 18:1)

AVETIKYAN, Arshavir Arshavirovich; PODKOPAYEV, Ivan Andreyevich;
TSARENKO, A.P., red.; MEDVEDEVA, M.A., tekhn.red.

[Mechanization and automatization of car handling operations]
Opyt mekhanizatsii i avtomatizatsii pererabotki vagonov. Moskva,
Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshchenia,
1960. 23 p. (MIRA 13:9)
(Railroads--Traffic) (Automatic control)

PODKOPAY I. Ye.

USSR/General and Special Zoology. Insects

P

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 25756

Author : ~~Fodkopay I. Ye.~~

Inst : Not Given

Title : The Wire Beetles in the South of Ukraine and Agrotechnical Means of Their Control. (Krovoschniki na yuge Ukrainy i agrotekhnicheskie meropriyatiya po bor'be s nimi.)

Orig Pub : Tr. Ukr. n-i. in-ta khlopkovodstvo, Zashchita rastenii, Kiev Gossoi'khozisdat USSR, 1956, 102-108.

Abstract : Out of thirteen elater species found on arable soils the following were most numerous and did most damage to plants: Melanotus brunnipes, Agriotes Gurgistrus and Solutoromus latus. The brown-legged elater inhabited the sandy easily warmed black-earth soils in the extreme South. The husking of the grain stubble followed by tillage exterminated the post-harvest weeds, which attracted the beetles, and created a lumpy soil, unfavorable for egg-laying. The steppe elater inhabited mostly brown and southern black earth soils, chiefly

Card . 1/2

PODKOPAY, I.Ye., kand.biolog.nauk; GOTSULENKO, V.Ya., mladshiy nauchnyy
sotrudnik

Lima-bean pod borer. Zashch. rast. ot vred. i bol. 8 no.11:33
N '63. (MIRA 17:3)

PODKOPAY, I. Ye.

USSR / General and Specialized Zoology. Insects. Insect and Mite Pests.

P

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44819

Author : Podkopay, I. Ye.

Inst : Ukrainian Scientific Research Institute of Cotton Cultivation

Title : The Bollworm in South Ukraine and Measures for Its Control.

Orig Pub : Tr. Ukr. n.-i. in-ta Khlopkovodstva. Zashchita rasteniy. Kiev, Gossel'koizdat UkSSR, 1956, 71-96

Abstract : The mass breeding of the bollworm *Chloridea obsoleta* F. is chiefly dependent on the survival of the pupae in warm winter weather (the minimal temperature is not lower than 15°) when the sum of the average monthly temperatures from November to February is above 0 and when precipitation in May-June is 1 1/2 to 2 times greater than the average for many years, this condition promotes the development of weeds, in feeding the moths, thereby increasing their fertility. A

Card 1/3

33

USSR / General and Specialized Zoology. Insects. Insect and
Mite Pests.

P

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44819

HCCH dusts with calcium arsenite (2 : 2 : 1) during the beginning of mass egg-laying and during the origination of the larvae. The use of Trichogramma chalcid flies and insectivorous birds is effective. -- A. P. Adrianov.

Card 3/3

34

MIKLASHEVSKIY, S.N., inzh., assistant; TORLIN, M.D., inzh; PODKOPAY, V.P.,
inzh.

Operation of modernized steam locomotives. Zhel. dor. transp.
41 no.4:70-72 Ap '59. (MIRA 12:6)

1.Belorusskiy institut inzhenerov zheleznodorozhnogo transporta
(for Miklashevskiy). 2.Nachal'nik parovoznogo depe Gomel' Belorusskoy
dorogi (for Torlin). 3.Glavnyy inzhener depe Krasnyy Liman Donetskoy
dorogi (for Podkopay).

(Locomotives)

PODKOPAYEV, A.A.

Planting oak in clusters on eroded slopes of the Donets Basin.
Agrobiologiya no.2:241-245 Mr-Apr '61. (MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut agrolesome-
lioratsii, Stalingrad.
(Donets Basin--Oak)

PODKOPAYEV, A.N.; ROYTMAN, Ye.Ya.

Passivation of tin cans for food products. Kons.1 ov.prom. 14 no.2:
4-6 F '59. (MIRA 12:3)

1. Odesskiy konservnyy kombinat.
(Tin cans) (Corrosion and anticorrosives)

PODKOPAYEV, I

A

Opyt Mekhanizatsii I Avtomatizatsii I Pererabotki Vaganov (By) A. A.

Avetikyan (1) I. A. Podkopayev. Moskva, Transzheldorizdat, 1960

23 P. Illus., Charts, Diags.

AVETIKYAN, A.A., inzh.; PODKOPAYEV, I.A., inzh.

Mechanization and automation of operations at a railroad station.
Mekh.i avtom. proizv. 15 no.6:23-26 Je '61. (MIRA 14:6)
(Railroads—Station service)
(Automation)

AVETIKYAN, A.A., inzh.; PODKOPAYEV, I.A., inzh.

Possibilities for further improving the technology of hump
yards. Zhel.dor.transp. 40 no.11:37-42 N '58. (MIRA 11:12)
(Railroads--Hump yards)

BARKOVSKIY, N.A., inzh.; PODKOPAYEV, I.A., inzh.

Television in the classification yards. Zhel.dor. transp. 43 no.5:
63-65 My '61. (MIRA 14:4)

1. Nachal'nik distantzii signalizatsii i svyazi stantsii Losino-
ostrovskaya (for Barkovskiy). 2. Glavnyy inzhener stantsii
Losinoostrovskaya (for Podkopayev).
(Industrial television) (Railroads—Hump yards)

PODKOPAYEV, A.N.

For an improvement of the quality and widening of the assortment
of products. Kons. 1 ov. prom. 18 no.11:10-11 N '63.
(MIRA 16:12)

1. Odesskiy konservnyy kombinat.

PODKOPAYEV, A. N.

USSR/General Problems. Methodology. History. Scientific A
Institutions and Conferences. Teaching. Problems
of Bibliography and Scientific Documentation

Abs Jour : Ref Zhur-Khimiya, No 4, 1958, 10232

Author : A. N. Podkopayev, I. Sh. Mogilevskiy

Inst : Not given

Title : The Plant imeni Voroshilov-the Oldest Food
Enterprise in the Ukraine

Orig Pub : Konservn. i ovoshchesush prom-st', 1957, No 10,
39-41

Abstract : Sketch on the development of the plant (Odessa).

Card 1/1

PODKOPAYEV, A. T.

"The Cabbage Pests of Voroshilovgradskaya Oblast and a System of Measures for Their Control." Cand Agr Sci, Khar'kov Agricultural Inst, Khar'kov, 1953. (RZhBiol, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13)

SO: Sum. No. 598, 29 Jul 55

PODKOPAYEV, A. T.

5705. PODKOPAYEV, A. T. Pamyatka Po Razvedeniyu i Ispol'zovaniyu Yaytseyeda
Telenomusa Dlya Bor'by s Klopom--Cherepashkoy v Kolkhozakh Voroshilovgradskoy
Oblasti. Voroshilovgrad, Obl. Gaz. izd.; 1954. 20s. s Ill. 19sm (Voroshilovgr.
Ob. upr. Sel'skogo Khozyaystva. Voroshilovgr. S.-Kh, In-t.) 1,000 Ekz. B. Ts.--
(55.1251). 633.1:632(47.724)/632.761.633.1(47.724)+632.961

SO: Knizhnaya, Letopis, Vol. 1, 1955

PODKOPAYEV, B.

We are overcoming the theory of the "visual provocator". Sov. foto
17 no.4:24 Ap '57. (MIRA 10:6)

(Photography, Journalistic)

PODKOPAYEV, G.

Financial Statements

Reorganization of the scheme of bookkeeping balances. Bukhg. uchet. 11 no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

NIKOLAYEV, T. [author]; PODKOPAYEV, I. [reviewer].

Story of heroic Vietnam ("Great changes in Vietnam." T.Nikolaev. Reviewed
by I.Podkopaev). Vokrug sveta no.9:60-61 S '53. (MLBA 6:10)
(Nikolaev, T.) (Vietnam--History)

PODKOPAYEV, I.Ya.

Past and present peoples of Indochina. Sov.etn. no.3:42-56 '54.

(MIRA 7:11)

(Indochina--Ethnology) (Ethnology--Indochina)

78DKCPHYEV II

MAKASHEVA, V.D.; ANDREYEV, S.A.; DANILOV, A.Ya.; UGAROV, F.P.; PAK, F.F.;
PODKOPAYEV, I.I.

Fortieth anniversary of the Great October Revolution. Khleb. 1 kond.
prom. 1 no.9:31-36 S '57. (MIRA 10:11)

1. Mytishchinskiy khlebokombinat Moskovskogo oblastnogo tresta khlebopopecheniya (for Makasheva, Andreyev, Danilov).
2. Klin'skiy khlebokombinat Moskovskogo oblastnogo tresta khlebopopecheniya (for Ugarov).
3. Podol'skiy khlebokombinat Moskovskogo oblastnogo tresta khlebopopecheniya (for Pak, Podkopayev).

(Bakers and bakeries)

PODKOPAYEV, I.I.

MIRZOYEVA, Ye.L.; KOMAROV, A.M.; PODKOPAYEV, I.I.; MITCHENKO, K.D.

Regularizing the wage system in the baking industry; discussion on the article of R.IA. Vorovitskaia, G.I. Kleiman. Khleb.i kond.prom. 1 no.6:24-29 Je '57. (MLRA 10:8)

- 1.Ministerstvo promyshlennosti prodovol'stvennykh tovarov SSSR (for Mirsoyeva).
- 2.TSentral'nyy komitet profsoyuza rabochikh pishchevoy promyshlennosti (for Komarov).
- 3.Tekhnik po trudu Podol'skogo khlebokombinata Moskovskoy oblasti (for Podkopayev).
4. Tekhnik po trudu khlebokombinata v Chernovitsakh (for Mitchenko).
(Wages)

PODKOPAYEV, Ivan Yakovlevich

PODKOPAYEV, Ivan Yakovlevich; KUMKES, S.N., redaktor; KOSHELEVA, S.M.,
tekhnicheskii redaktor

[Vietnam; a geographical sketch] V'etnam; geograficheskii ocherk.
Moskva, Gos.izd-vo geogr. lit-ry, 1955. 29 p. (MIRA 9:2)
(Vietnam)

GREZIN, V.F., kand. veter. nauk; PODKOPAYEV, M.V., kand. veter nauk;
KOVALEV, V.F., nauchnyy sotrudnik; TSVETKOV, Ye.I., nauchnyy
sotrudnik

Effectiveness of colimycin and mycerin in gastrointestinal
diseases of calves and piglets. Veterinariia 39 no.11:67-
68 N '62. (MIRA 16:10

1. Gosudarstvennyy nauchno-kontrol'nyy institut veterinarnykh
preparatov.

1ST AND 2ND CIPHERS																										3RD AND 4TH CIPHERS																									
PROCESSES AND PROPERTIES INDEX																																																			
Co 11 2 Conditioned reflex to an immune reaction. I. Conditioned reflex in rabbits of the cellular reaction of the peritoneal fluid. N. PODKOPEV AND R. SAATCHIAN. <i>Zhur. ekspl. Biol. Med.</i> 11, 77-80(1929).—After combining 20 times the sounding of an elec. buzzer with the intraperitoneal injection of a dead culture of staphylococcus, the sounding of the buzzer alone evoked the same alterations in the cells of the peritoneal fluid as was produced by an injection of the staphylococcus culture. S. M.																																																			
ASO-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			
1ST AND 2ND CIPHERS																																																			

173. PODKOPAYEV N. A. Academy of Sciences of USSR Reciprocal relation between conditioned and unconditioned food reflexes American Review of Soviet Medicine 1946, 5/3 (135 - 139)

Following a discussion of the literature, non-reciprocal influences are described as occurring in three dogs: (1) A weak conditioned food stimulus is followed by a reduced unconditioned reflex; (2) a medium or strong conditioned food stimulus is followed by an increased unconditioned reflex. The nature of the conditioned stimulus is not stated.

Kleitman - Chicago

So: Physiology, Biochemistry & Pharmacology, Section II, Vol. 2, No. 1,5

PODKOPAYEV, N. A.

Podkopayev, N. A. "Interrupted and uninterrupted fading as tests for determining a type of nerve system in dogs of an excitable type," Trudy fiziol. laboratorii im. Pavlova, Vol. XIV, 1948, p. 39-47

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

PODKOPAYEV, N.A.

[Significance of the duration of the effect of the unconditioned alimentary reflex] Zametka o znachenii dlitel'nosti deistviia bezuslov'nogo pishchevogo refleksa. Tr.Fiziol.laborat. Pavlova 16:234-238 '49. (GIML 19:1)

1. Of the Physiological Institute imeni Academician I.P.Pavlov of the Academy of Sciences USSR (Director -- Academician L.A.Orbeli)

PODKOPAEV, N.A.

"The Creative Aspect Of Ivan Petrovich Pavlov" (p.1) by N.A. Podkopaev (Leningrad)

SO: Progress of Contemporary Biology (Usp. Sovrem. Biol.) Vol. XXVIII, 1949, No. 1
(4) (July-Aug.)

PODKOPAYEV, Nikolay Aleksandrovich, 1892-

(Methods of studying conditioned reflexes) Izd. 2., znachitel'no ispr. i dop.
Moskva, 1936. 122 p. (53-53109)

QP372.P6 1936

PODGORODNIKOVA, N.A.

Some clinical, diagnostic, and therapeutic problems in tuberculosis
of the intraperitoneal lymph nodes. Sov.med. 23 no.12:89-94 D '59.
(MIRA 13:4)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta tuberku-
leza (direktor - prof. A.D. Semenov).
(TUBERCULOSIS LUMPH NODE)

PODIL'CHAK, M.D., kand.med.nauk

Influence of testosterone propionate on the growth and development
of breast cancer. Vrach.delo no.11:1143-1147 N '59. (MIRA 13:4)

1. Kafedra gosptal'noy khirurgii (zaveduyushchiy - prof. L.N.
Kuzmenko) L'vovskogo meditsinskogo instituta.
(TESTOSTERONE) (BREAST--CANCER)

POLYKOVSKI, M. D., KAGAN, F. I. and FOMINAYEV, V. M.

"Investigations on activation of α -protoxins in cultures *Clostridium perfringens* of the D type."

Veterinariya, Vol. 37, No. 2, 1960, p. 44

(POLYKOVSKI, M. D., Professor, VIV F. I. KAGAN AND V. M. FOMINAYEV, Canda.
Vet. Sci. USSR

PODLESNOV, A.F.

Scientific conference in Minsk. Mekh.i elek.sots.sel'khoz. 17
no.6:56-57 '59. (MIRA 13:4)
(White Russia--Farm mechanization)

FOUKOPAYEV, I.A.

34161. Fiziologicheskiy analiz psikhicheskogo Komponenta pri zabolevaniyakh pishchevaritel'nogo trakta. (Tezisy doklada)- Vsb: Problemy Kortikovistseral'noy patologii. M., 1949, s. 341-44

SO: Knizhnaya Letopis' No 6, 1955

PODKOPAYEV, N.A.

27337: PODKOPAYEV, N.A.-Tvorcheskiy oblik ivana petrovicha pavlova. Uspekhi sovr. Biologii, T. XXVIII VYP. 1, 1949, s. 1-10 Portr.

SO: Letopis'Zhurnal'nykh Statey, Vol. 47, 1948.

PODKOPAYEV. Nikolay Aleksandrovich, 1892-

(Methods of studying conditioned reflexes) Izd. 3., ispr. i dop.
Moskva, Izd-vo Akademii nauk SSSR, 1952. 105 p. (53-26812)

QP272. P6 1952

PODKOPAYEV, N.A.

Relocation of inhibitory processes. Trudy fiziol. lab. 1 no.1/3:
64-73 '53 (MLRA 9:5)

(INHIBITION)

PODKOPAYEV, N.A.

Peculiar case of motor reaction in a dog related to the development
of inhibition in the cerebral cortex. Trudy fiziol. lab. 1 no.1/3:
165-171 '53 (MLRA 9:5)

(MOTION, PSYCHOLOGY OF) (INHIBITION)

PODKOPAYEV, N. F.

PODKOPAYEV, N. F. "Gas water heaters", Gor. khoz-vo Moskvye, 1949, No. 4, p. 16-22.

SO: U-4393, 19 August 53, (Letopis. 'Zhurnal 'nykh Statey', No. 22, 1949).

BYLINKIN, I.G., inzhener; MAYZEL'S, P.B., inzhener; PODKOPAYEV, N.F., inzhener.

Automatic regulation of gas consumption in heating boilers. Gor.khoz.Mosk.
25 no.7:27-32 J1 '51. (MLRA 6:11)

(Boilers) (Automatic control)

PODKOPAYEV, N. [F.]

Gas - Heating and Cooking

Improve gas home appliances. Zhil. kom. khoz., 2 No. 1, 1952

Monthly List of Russian Accessions, Library of
Congress, July 1952. Unclassified

PODKOPAYEV, N. F., SVERDLOV, L. YE.

Gas - Heating and Cooking

Automatic gas hot-water heater, Gor. khoz. Mosk. 26 No. 4, 1952

9. Monthly List of Russian Accessions, Library of Congress, July 195²~~8~~, Uncl.

ПОДЕКОПАЙЕВ, Н.П.

Gas pressure regulators for city gas supply systems. Gaz.prom.no.2:23-
30 P '56. (MIRA 10:1)

(Gas distribution) (Gas governors)

PODKOPAYEV, N.F.: VIGDORCHIK, D.Ya.: MARTSINKOVSKIY, I.I.

Calculating gas pipes for the interior of houses. Gas.prem.no.10:
18-24 0 '56. (Gas pipes) (MLRA 9:10)

PODKOPAYEV, N. F.

ALEKSANDROVICH, A.I.; VIGDORCHIK, D.Ya.; DRUSKIN, L.I.; ZIL'BERSHTEYN, I.A.;
MAYZEL'S, P.B.; MURAV'YEV, I.N.; ~~PODKOPAYEV, N.F.~~; SIADKOV, S.P.;
STOYUNIN, G.P.; AVRUSHCHENKO, R.A., red.; KONYASHINA, A.D., tekhn.red.

[Gasburners for city gas use] Gazogorelochnye ustroistva dlia gorod-
skogo gazosnabzhenia. Pod obshchei red. P.B.Meizel'sa. Moskva,
Izd-vo M-va kommun.khoz. RSFSR, 1957. 202 p. (MIRA 11:2)
(Gas-burners)

PODKOPAYEV, N.F.

Supplying Prague with liquefied gas. Gaz. prom. no. 5:51-54 My '58.
(Prague--Liquefied petroleum gas) (MIRA 11:5)

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																										METALLURGICAL LITERATURE CLASSIFICATION																									
Work of the Karabougaz expeditions. 1. From report of an expedition in 1900. N. I. Podkopaev. <i>Acad. Nauk, U. S. S. R. Materials</i> No. 73, 3rd ed. 89-100(1930).— Special attention and study were given to the periodical nature of the Glauber salt deposits. In winter deposition of this salt is abundant, and the waves throw it out upon the shores in large quantities, about 550-660 tons per 450 sq. m. Beginning with April the salt begins to dissolve, and in July it is about all in solution. R. S.																																																			
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION																										123083 HEP ONV GSI																									
123083 HEP ONV GSI																										123083 HEP ONV GSI																									

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
COMMON ELEMENTS																										COMMON VARIABLE INDEX																									
Work of the Karabugas expeditions. II. Scientific expedition of 1921-1926. N. J. BOGOMOLY. Akad. Nauk., U. S. S. R., Material No. 73 (Karabugas and its industrial importance, 3rd. ed.), 107-38 (1930); cf. C. A. 24, 4501.—The expedition of 1931 assembled considerable valuable information regarding the Karabugas district. There were organized two hydrometeorological stations, a radio station and a chem. and biol. lab. The latter, as well as a workroom for photography, was located on a steamship. There were detd. the av. fluctuation of barometric pressures for 5 years, the ship. There were detd. the av. fluctuation of barometric pressures for 5 years, the air temps., water temps., etc. The deposition of Glauber salt takes place during 4 months and corresponds to the lowering of the water temp. to 5.5-6°. This is in accordance with lab. expts. on the deposition of Glauber salt from the Karabugas water, which was found to occur at 5.5°. A number of complete chem. analyses of water were made. Tables giving results of all this work are included in the article. ROBERT SCHLES																																																			
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION																																																			

PODKOPAIEV, N. N.
B. G. KARPOV, Izvestia Platinogo Instituta, 1932, (9), 91-112

19

Black-residue waste of the potassium ferrocyanide production as a substitute for alkalies. V. P. Yufirev and N. P. Podkopaev. *Trans. Inst. Chem. Tech. Ivanovo* (U. S. S. R.) 1, 60-61 (1935).—A good grade of glass suitable for the manuf. of bottles and other articles of dark color was obtained by a partial substitution (up to 75%) of the black residue for Na_2CO_3 . Chas. Blanc.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

1200: 60-170

1210: 60-170

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1250: 60-170

1260: 60-170

1270: 60-170

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7

Determination of alumina and aluminum in steels, with the mercury cathode. 1. N. Podkopaev. *Zarodskaya Lab. 6*, 1053-4 (1937).—Dissolve 10 g. of steel in 150 cc. of boiling 30% HCl. Filter, wash the residue (Al_2O_3) with 4% HCl, then heat it in Pt with HF + H_2SO_4 to remove SiO_2 , fuse with $KHSO_4$, dissolve the melt in H_2O contg. H_2SO_4 , add to the soln. methyl orange and NH_4OH to a neutral reaction, make the soln. acid with H_2SO_4 and deposit Fe electrolytically with a Hg cathode (cf. Gerke and Lyubomirskaya, *C. A.* 31, 84319). Treat the electrolyte with 5 cc. of 20% $NaNH_2HPO_4$ and a slight excess of NH_4OH , boil for 1 min., filter, ignite the residue in a Pt crucible, cool, weigh and det. as Al phosphate. To det. Al in the filtrate from Al_2O_3 , add dil. NH_4OH (1:30) to an incipient turbidity and then 15 cc. of $NaNH_2HPO_4$ soln., dissolve the ppt. with a few drops of dil. HCl, introduce 40-70 cc. of 30% Na_2SO_4 and 15 cc. of 70% AcOH and boil for 15 min. Ignite the filter residue in a quartz crucible, dissolve the Al phosphate in 15-20 cc. of hot 10% H_2SO_4 and proceed with the electrodeposition and the detn. of Al as above. Chas. Blanc

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS		COMMON ELEMENTS		OPEN		MATERIALS INDEX		ASD-SLA METALLURGICAL LITERATURE		1ST AND 2ND ORDERS		COMMON ELEMENTS		OPEN		MATERIALS INDEX		ASD-SLA METALLURGICAL LITERATURE	
Experimental Study of Cosmic Rays at Various Altitudes by the Method of Photographic Plates. A. P. Zhdanov and Yu. N. Prokopenko. Doklady Akad. Nauk. S.S.S.R. 64, 313-16(1949) (in Russian). At various altitudes between 970 and 6,000 m, photographic plates were exposed to the action of cosmic rays in air, in water (mountain lakes), and under lead, the purpose being the study of the effect of altitude and other factors upon the formation of heavy particles and nuclear fissions in the emulsion. In this preliminary paper the following results are reported. It was found from the experiments in air that the absorption coefficient in air of the component generating isolated tracks of more than 10 cm air equivalent is approximately 5 atm^{-1}, and that the cross section (for O or N) is $1.2 \times 10^{-28} \text{ cm}^2$; the corresponding values for the component generating nuclear disintegrations are approximately 7 atm^{-1} and $1.6 \times 10^{-28} \text{ cm}^2$; it is concluded that not all of these disintegrations are generated by the hard component; both isolated tracks and stars belong mostly to protons, some are due to α particles or to heavy mesons. The exposures under water, at depths up to 5 m, furnished the mean value 0.5 m^{-1} for the absorption coefficient in water of the component generating isolated tracks exceeding 10 cm of air equivalent. The measurements under lead filters up to 9 cm thick resulted in curves showing a well marked maximum in the region of the first Rossi maximum; this proves that some of the tracks are generated by rays formed in the lead.																			

3A

LA

Studies on cosmic rays by using photographic plates at different altitudes. A. P. Zhdanov and Yu. N. Podgornov. *Doklady Akad. Nauk S.S.S.R.* 64, 313-16(1949).—Stacks of plates (some with added B to increase sensitivity to neutrons) were exposed to cosmic rays for 24 to 29 days: (1) at different altitudes in Alages and Pamir from 970 m. to 6000 m. above sea level; (2) immersed at different depths in steel containers in high-altitude lakes; and (3) with different thicknesses of Pb above the stack. The no. of tracks corresponding to 10 cm. or more equiv. path length in air and to less than 10 cm. in air were counted in sample areas with a microscope on the plates. From series (1), the long-path group gave a coeff. of absorption in the atm. of about 3 atm.⁻¹ and a nuclear cross section (calcd. for O or N) of 1.2×10^{-28} sq. cm. For the short-path group these were 0.7 to 7 atm.⁻¹ and 1.6×10^{-28} sq. cm. The majority of single tracks and tracks in nuclear splitting were from protons; some may be from α -particles or heavy mesotrons. Calens, showed that most of the "stars" and a few of the tracks were from splitting of O and N in the emulsion. From series (2) the coeffs. of absorption in H₂O for the components causing the longer tracks were 0.46 and 0.54 m.⁻¹ in 2 lakes at 3200 and 3800 m. elevation. In series (3) the thickness of Pb was varied from 0 to 9 cm. A striking max. in the no. of tracks occurred at 2 cm. thickness for both long- and short-path components. Worden Waring

S/081/62/000/022/063/088
B166/B144

AUTHORS: Skobeyev, I. K., Podkopayev, N. V., Khabrov, M. F.

TITLE: Polyacryl amide and its coagulating effect

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 487, abstract
22P76 (Sb. nauchn. tr. Irkutskiy n.-i. in-t redk. met.,
no. 9, 1961, 152-159)

TEXT: The ability of polyacryl amide to coagulate neutral, alkaline and
acidic ore pulps is studied. It is shown to be an efficient coagulant
for mineral dressing, separating and purifying solutions and sewage, and
for the intensification of dehydration processes. [Abstracter's note:
Complete translation.]

Card 1/1

FAYZULLIN, A.M., inzh.; PODKOPAYEV, P.A., inzh.; ANDREYEV, E.K., inzh.

Pneumatic ejector charger for charging holes with igdinite. Gor.zhur.
no.1:45-47 Ja '65. (MIRA 18:3)

FAYZULLIN, A.M., inzh.; PODKOPAYEV, P.A., inzh.; ANDREYEV, E.K., inzh.

Compressed air charger for charging boreholes and blastholes.
Shakht.stroi. 9 no.4:24-26 Ap '65. (MIRA 18:5)

GERASIMOV, V.G.; YEFIMOV, L.I., inzh.; KEL'TSEV, V.V., kand.tekhn.nauk;
MAKAROV, K.M., inzh.; PODKOPAYEV, V.F., inzh.

Steam conversion of natural gas in a water gas producer. Masl.-
zhir. prom. 27 no.9:31-34 S '61. (MIRA 14:11)

1. Moskovskiy gidrozavod (for Gerasimov). 2. Vsesoyuznyy nauchno-
issledovatel'skiy institut prirodnogo gaza (for Yefimov, Kel'tsev,
Makarov, Podkopayev).

(Gas, Natural) (Gas producers)

PODKOPAYEV, V.M., kand. veter. nauk; ALIKAYEV, V.A., dots.

[Materials of the All-Union Conference on Diseases of Young Farm Animals and Poultry] Materialy Vsesoiuznoi konferentsii po bolezniam molodniaka sel'skokhoziaistvennykh zhiivotnykh i ptits. Moskva, Mosk. veterinarnaya akademiya, 1964. 247 p. (MIRA 18:1)

1. Vsesoyuznaya konferentsiya po boleznyam molodnyaka sel'skokhozyaystvennykh zhiivotnykh i ptits. 2. Moskovskaya veterinarnaya akademiya (for Podkopayev). 3. Zaveduyushchiy kafedroy bolezney molodnyaka Moskovskoy veterinarnoy akademii (for Alikayev).

PODKOPAYEV, N.V.; SKOBEYEV, I.K.

Investigating the treatment and processing of disthene
and disthene-chloritoid shales of the Lake Baikal region
for the recovery of alumina. Nauch. trudy IPI no.19:201-217
'63. (MIRA 17:6)

PODOPAYEV, Y. M., aspirant.

Early prophylaxis of alimentary toxic dyspepsia in newborn calves. Veterinariia 34 no.1:63-66 Ja '57. (MLRA 10:2)

1. Leningradskiy nauchno-issledovatel'skiy veterinarnyy institut.
(Calves--Feeding and feeding stuffs)
(Dyspepsia)

PODKOPAYEV, V.M., kand. veterin. nauk

Prophylaxis and therapy of dyspepsia in young farm animals.
Veterinariia 41 no.2:72-77 F '64. (MIRA 17:12)

· PODKOPAYEV, V.M., dotsent

Determining the dose of antibiotics in toxic dyspepsia of calves.
Veterinariia 41 no.4:55-58 Ap '65. (MIRA 18:6)

1. Moskovskaya veterinarnaya akademiya.

VERTINSKIY, K.I., prof.; ALIKAYEV, V.A., dotsent; PODKOPAYEV, V.M., dotsent; SHISHKOV, V.P., dotsent; ANDREYEV, I.A., veterin. vrach (Moskovskaya obl.); VLASOV, V.P., veterin. vrach (Moskovskaya obl.); MAMAYEV, A.P., veterin.vrach (Moskovskaya obl.); SHUL'GOVSKIY, I.P., veterin. vrach (Moskovskaya obl.)

Diagnosis, therapy, and prophylaxis of toxic dyspepsia in calves.
Veterinariia 41 no.1:59-64 Ja '65. (MIRA 18:2)

1. Moskovskaya veterinarnaya akademiya (for Vertinskiy, Alikayev, Podkopayev, Shishkov).

PODKOPAYEV, V.M.

Fluorescent globulin fractions of precipitating antianthrax serum
and their specific activity. Zhur. mikrobiol., epid. i imm. 41
no. 2:80-84 F '64. (MIRA 17:9)

1. Gosudarstvennyy nauchno-kontrol'nyy institut veterinarnykh
preparatov Ministerstva sel'skogo khozyaystva SSSR.

PODKOPAYEV, V.M.; TSVETKOV, Ye.I.

Isolation of a pure culture of *Pseudomonas pyocyanea* and yeasts from infected material. Lab. delo 10 no.5:306-307 '64.

(MIRA 17:5)

1. Nauchno-kontrol'nyy institut veterinarnykh preparatov Ministerstva sel'skogo khozyaystva SSR, Moskva. Nauchnyy rukovoditel' raboty -- V.F.Grezin.

KAS'YANOV, A.N.; BURDOV, A.; PODKOPAYEV, V.M.; KOTENKO, B.;
SAMARYANOV, M.B.

In the Soviet Union. Veterinariia 39 no.10:92-96 0 '62.
(MIRA 16:6)
(Veterinary medicine)

✓
PODKOPAYEV, V. M. Cand Vet Sci -- (diss) "~~The~~ Change in ~~the~~
Microflora of the Gastrointestinal Tract of Newborn Calves ~~until~~
~~up to the Weaning Period.~~
~~Their Weaning~~ Fed With Various Rations." Len, 1957. 19 pp 20 cm.

(Min of Agriculture USSR, Len Veterinary Inst), 100 copies

(KL, 26-57, 111)

- 97 -

PODKOPAYEV, YU. I.

PA 27/49T86

USSR/Nuclear Physics - Cosmic Radiation Jan 49
Nuclear Physics - Elementary Particles

"Experiments in the Study of Cosmic Rays by the
Photographic Plate Method at Various Altitudes,"
A. P. Zhdanov, Yu. I. Podkopayev, 4 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 3

Results of investigating dependence of the number
of heavy particles and nuclear fissions obtained
in photoplates upon: (1) height of the place of
observation above sea level, (2) depth to which
photoplates were submerged in water, and (3) width
of the lead placed over the plate. Experiments were
conducted in Alagez and Pamir. Submitted 19 Nov 48.
FDB 27/49T86

24(5),24(7)

AUTHORS:

Dzhelepov, B. S., Yemel'yanov, B. A., SOV/48-23-7-10/31
Podkopayev, Yu. N., Podymakhin, V. N., Uchevatkin, I. F.,
Shestopalova, S. A.

TITLE:

On the Hard Part of the γ -Spectrum of Radium Found in the
Equilibrium With the Products of the Decay ($h\nu=3100+5600$ kev)
(O zhestkoy chasti γ -spektra radiya, nakhodyashchegosya v
ravnovesii s produktami raspada ($h\nu=3100+5600$ keV))

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,
Vol 23, Nr 7, pp 832-834 (USSR)

ABSTRACT:

At the beginning, the transition $RaC \rightarrow RaC'$, and further
the transition $RaC'' \rightarrow RaD$, are indicated as the fundamental
cause of the hard γ -radiation, and figure 1 shows a branching
of the radioactive series of the radium family. The energy
levels of these transitions are investigated, and a number of
previous papers is indicated. In the present paper, a
 γ -hodoscope of the NIFI LGU was used for investigating the
hard γ -rays. Two series of measurements were carried out. In
the first series, the range of from 3,070 kev to 5,600 kev
was investigated. The results of these measurements are shown
in diagram (Fig 2). In the second series, the range of from

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On the Hard Part of the γ -Spectrum of Radium Found in SOV/48-23-7-10/31
the Equilibrium With the Products of the Decay ($h\nu=3,100\pm 5,600$ kev)

3,200 kev to 5,600 kev was investigated, and the results were compiled in a diagram (Fig 3). The line with $h\nu = 3,070$ kev was practically not measured in the first series, and was absolutely not measured in the second series. The diagrams show the existence of γ -lines with the energy of 3,100-3,200 kev. The second diagram also shows an increase in the electron output in the range of 3,500-3,800 kev, and this is attributed to the transition $RaC'' \rightarrow RaD$ according to figure 1. The transitions $RaC \rightarrow RaC'$ and $RaC'' \rightarrow RaD$ are indicated for the γ -lines with the energy of about 3,200 kev, and finally it is ascertained that lines with an energy of more than 3,900 kev could not be detected. The authors thank O. V. Chubinskiy for the supply of experimental data. There are 3 figures and 9 references, 5 of which are Soviet.

Card 2/3

On the Hard Part of the γ -Spectrum of Radium Found in SOV/48-23-7-10/31
the Equilibrium With the Products of the Decay ($h\nu=3,100+5,600$ kev).

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im.
D. I. Mendeleyeva (All-Union Scientific Research Institute
of Metrology imeni D. I. Mendeleev). Leningradskiy gos. uni-
versitet im. A. A. Zhdanova (Leningrad State University imeni
A. A. Zhdanov)

Card 3/3

ACCESSION NR: AP4031177

S/0056/64/046/004/1479/1480

AUTHOR: Vitman, V. D.; Dzhelepov, B. S.; Podkopayev, Yu. N.

TITLE: High energy gamma transitions in Ga-72 decay

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1479-1480

TOPIC TAGS: gallium, gamma line, gamma ray spectrum, gamma ray intensity, line spectrum, decay scheme, half life

ABSTRACT: The Ga^{72} γ spectrum was investigated in the energy range above 2000 keV using the γ hodoscope of NIFI LGU. Two Ga^{72} specimens were used, with activity ~ 3 and 5 Curie. In addition to the previously known lines, γ rays with energy 3,680 + 40 keV, were with a half life (13 - 3 hours) that indicates that they belong to the Ga^{72} γ spectrum, were observed for the first time in the Ga^{72} decay. The investigations show that in Ga^{72} decay there are no transitions with higher energies, whose intensity would exceed 2×10^{-7} photons per disintegration. The γ ray spectrum of Ga^{72} was also investigated in the 3000 -- 4000 keV range with a scintillation γ spectrometer, and the existence of low-intensity 3700 keV γ rays was confirmed. Orig. art. has: 1 figure and 1 table.

Cord 1/4

ACCESSION NR: AP4031177

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: 27Jul63

DATE ACQ: 07May64

ENCL: 02

SUB CODE: NP

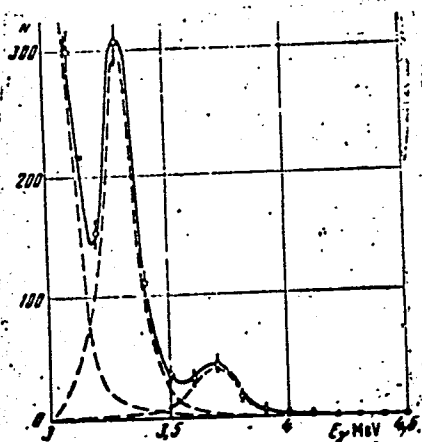
NR REF SOV: 001

OTHER: 003

Card 2/4

ACCESSION NR: AP4031177

ENCLOSURE: 01



Experimental spectrum of γ rays
of Ga^{72}

Experimental spectrum of γ rays
of Ga^{72} in the 3000-4000 keV range.

N - number of frames
solid curve - sum of spectral component
o - experimental points of histogram

Card 3/4

ACCESSION NR: AP 4031177,

ENCLOSURE: 02

E, keV	Интенсивности γ -переходов, 10 ⁻⁴ квантов/распад			1
	[°]	[°]	[°]	
2976	—	—	7±2	} 9,8±2,0 0,7 0,75±0,22 0,05±0,02
3050	13	—	~2	
3160	—	4	<1	
3340	3	2	—	
3680	—	—	—	2

1 - intensity of γ transitions, 10⁻⁴
quanta per decay

2 - our data

Card 4/4

DZHELEPOV, B.S.; YEMEL'YANOV, B.A.; KUPRIYANOVA, K.P.; PODKOPAYEV, Yu.N.

γ -Spectrum of La^{140} in the energy range of 2300 to 3900 Kev.
Zhur. eksp. i teor. fiz. 38 no.1:282-284 Jan '60. (MIRA 14:9)

1. Leningradskiy gosudarstvennyy universitet.
(Lanthanum--Isotopes)

S/056/60/039/006/020/063
B006/B056

AUTHORS: Artamonova, K. P., Gustova, L. V., Podkopayev, Yu. N.,
Chubinskiy, O. V.

TITLE: The γ -Spectrum of Na^{24} in the Energy Range of 2.5 - 5.5 Mev

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 39, No. 6(12), pp. 1593 - 1595

TEXT: The γ -hodoscope of the NIFI LGU (Scientific Research Institute of
Physics of Leningrad State University) was used to examine the hard
 γ -spectrum of Na^{24} . The gamma source was a Na_2CO_3 preparation with a
primary activity of 3.4 curies. Five measurement series were produced and
examined at different magnetic field strengths (see Table). Beside the
known line with 3.850 Mev, a line with (4.230 ± 0.050) Mev was found. The
relative intensity of these two was determined from the series I-III as
1 : 0.018, where the error is 35 - 40%. Also the relative intensities of
the γ -transitions $h\nu = 2.75, 3.85, \text{ and } 4.24$ Mev were determined by com-
paring the line areas of the 3.85-Mev line and the 4.24-Mev line with the

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The γ -Spectrum of Na^{24} in the Energy Range of 2.5 - 5.5 Mev S/056/60/039/006/020/063
B006/B056

2.75-Mev line. $I_{3.85}/I_{2.75} = (9 \pm 2) \cdot 10^{-4}$ and $I_{4.24}/I_{2.75} = (1.5 \pm 0.5) \cdot 10^{-5}$ V
was found. If one assumes that the intensity of transition $h\nu = 2.75$ Mev is equal to one quantum per decay, the intensities of the 3.85- and 4.24-Mev transitions will be $9 \cdot 10^{-4}$ and $1.5 \cdot 10^{-5}$ quanta per decay. For the upper limit of the intensity of the γ -transition $h\nu \approx 5.22$ Mev, which is possible according to the Na^{24} decay scheme, a value of $2 \cdot 10^{-7}$ quanta per decay is estimated. A 4.12-Mev γ -transition could not be found. For the β -transitions with the limiting energies 0.29 and 1.27 Mev, the reduced half-lives were estimated: $\log ft = 6.6$ and 10.7 , respectively. The authors thank B. A. Yemel'yanov for his help and N. D. Novosil'tseva for placing the source at their disposal. There are 1 figure, 1 table, and 5 Soviet references.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: July 15, 1960

Card 2/2

PODKOPAIEV, Yu. N.

537.591.8

3246. Experimental investigation of cosmic rays by
the photo-plate method at various altitudes. - A. P.
ZHDANOV AND YU. N. PODKOPAIEV. Dokl. Akad.
Nauk, SSSR, 64 (No. 3) 313-16 (1949) In Russian.

5062

S/048/60/024/03/06/019
B006/B014

24.6520

AUTHORS: Dzhelepov, B. S., Yemel'yanov, B. A., Kupriyanova, K. P.,
Podkopayev, Yu. N.

TITLE: The β^- -Decay of La^{140}

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,
Vol. 24, No. 3, pp. 288-290

TEXT: The article under review was read at the Tenth All-Union Conference on Nuclear Spectroscopy (Moscow, January 19 - 27, 1960). The data available on La^{140} decay do not permit a definite determination of the ground-state spin of this isotope. Therefore, the authors of this article studied the β -transition from the ground state of La^{140} to the ground state of Ce^{140} . Measurements were carried out in the range 1,800 - 4,000 kev by means of a new β -spectrometer (a β -hodoscope) by NIFI LGU. This instrument differs from the β -hodoscope described in Ref. 1 only in that it uses a β -active preparation as electron source, instead of a γ -irradiated target. Altogether, seven series of measurements were made

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The β^- -Decay of La^{140}

S/048/60/024/03/06/019
B006/B014

with different magnetic field strengths and different sources. Each series covered an energy range of $\Delta E \approx 1,000$ kev. The results obtained were composed in such a manner that the range 1,800 - 4,000 kev was continuously covered (Fig. 1). The left-hand diagram of Fig. 1 illustrates the β -spectrum of La^{140} with the energy limit $E_{\text{lim}} \approx 2200$ kev. The electron distribution found between 2,200 and 3,850 kev was identified as a continuous spectrum of the β -transition between the ground states of La^{140} and Ce^{140} and as conversion lines of the γ -transitions of Ce^{140} . Fig. 2 shows the determination of energy limits by means of Curie curves. The authors found that the most probable spin value of the La^{140} ground state is 3. Further, they detected conversion lines having electron energies of $(2,490 \pm 30)$ and $(2,880 \pm 30)$ kev. These lines had been detected already earlier. A line of $(3,100 \pm 50)$ kev was found for the first time. The energies of the corresponding γ -transitions and the intensities of the conversion lines are listed in a table. The conversion coefficients of the transitions were $\alpha_{K-2,530} = 3.4 \cdot 10^{-4}$ and $\alpha_{K-2,920} = 3.1 \cdot 10^{-4}$. A comparison with theoretical results indicated

Card 2/3

The β^- -Decay of La^{140}

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B006/B014

that the 2,530-keV γ -transition is an M1 transition. The existence of such an excited level is indicated by the line corresponding to the nuclear transition of 3,140 keV. Finally, the authors thank N. D. Novosil'tseva and L. V. Gustova for their assistance. There are 2 figures, 1 table, and 8 references, 7 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut
Leningradskogo gos. universiteta im. A. A. Zhdanova
(Scientific Research Institute of Physics of Leningrad
State University imeni A. A. Zhdanov)

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Card 3/3

ARTAMONOVA, K.P.; GUSTOVA, L.V.; PODKOPAYEV, Yu.N.; CHUBINSKIY, O.V.

γ -spectrum of Na^{24} in the 2.5 to 5.5 Mev. energy range.
Zhur. eksp. i teor. fiz. 39 no. 6:1593-1595 D '60. (MIRA 14:1)

1. Leningradskiy gosudarstvennyy universitet.
(Gamma rays) (Sodium--Isotopes)

PODKLETNOV, N.Ye.; PODKOPAYEVA, D.F.

Separating bases of the " β -picoline" fraction by the phthalate-oxalate method. Soob.Sakhal.kompl.nauch.-issl.inst.AN SSSR no.8: 120-121 '59. (MIRA 14:4)

(Picoline)

PODKLETNOV, N.Ye.; PODKOPAYEVA, D.F.

Separating β -picoline from the " β -picoline" fraction. Soob.
Sakhal.kompl.nauch.-issl.inst.AN SSSR no.8:121-122 '59.

(MIRA 14:4)

(Picoline)